

Name:	<i>Fire Prevention</i>
Course Description:	This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
Prerequisite:	None.
Outcomes:	<ol style="list-style-type: none"> 1. Define the national fire problem and main issues relating thereto. 2. Recognize the need, responsibilities, and importance of fire prevention as part of an overall mix of fire protection. 3. Recognize the need, responsibilities, and importance of fire prevention organizations. 4. Review minimum professional qualifications at the state and national level for Fire Inspector, Fire Investigator, and Public Educator. 5. Define the elements of a plan review program. 6. Identify the laws, rules, codes, and other regulations relevant to fire protection of the authority having jurisdiction. 7. Discuss training programs for fire prevention. 8. Design media programs. 9. Discuss the major programs for public education.
Suggested Student Texts:	<p><i>Fire Prevention: Code Enforcement & Inspection</i>; David Diamantes, Thomson, 2002</p> <p><i>Fire Inspection and Code Enforcement</i>; Fire Protection Publications, 1998</p> <p><i>Fire & Life Safety Educator</i>; Fire Protection Publications, 1997</p> <p><i>Introduction to Fire Prevention</i>; James Robertson, Fire engineering, 2004</p> <p><i>Life Safety Code 101 Handbook</i>; NFPA</p> <p><i>NFPA Fire Protection Handbook</i> (NFPA CD-ROM licensing agreement available)</p> <p><i>Principles of Fire Protection</i>; David Diamantes, 2004</p> <p><i>Introduction to Fire Prevention</i>; Brady, 2005</p>
Supporting References/Research for Faculty and Students:	<p>U.S. Fire Administration</p> <p><u>Publications:</u> http://www.usfa.fema.gov/applications/publications/pubs_main.cfm See Arson, Fire Data, Fire Protection, Fire Safety and Public Education, Fire Service Administration, Training, Wildfire</p> <p><u>Applied Research:</u> http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm</p> <p><u>Research Reports:</u></p>

	http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm
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Supporting References/Research for Faculty and Students:	<p><u>Technical Reports:</u> http://www.usfa.fema.gov/applications/publications/techreps.cfm</p> <p><u>Topical Fire Research Series:</u> http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm</p> <p><u>Learning Resource Center:</u> http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm</p> <p>National Institute for Standards and Technology http://www.fire.nist.gov: Fire Tests/Data, Publications</p> <p>References http://www.homefiresprinkler.org/ Society of Fire Protection Engineers: http://www.pentoncmg.com/sfpe/index.html</p> <p>Current Events/News http://www.firehouse.com/ http://www.fireengineering.com/ http://www.withthecommand.com/</p>
Assessment:	<p>Students will be evaluated for mastery of learning objectives by methods of evaluation to be determined by the instructor.</p>
Point(s) of Contact:	<p>Larry Perez, San Antonio College, TX (210) 733-2967 LPEREZ@ACCD.EDU Ralph K. De La Ossa, Long Beach City College, California, (562) 938-4338, rdelaossa@lbcc.edu</p> <p>Revision 11/05</p>

Course Outline

Fire Prevention

- I. History and Development of Fire Prevention
 - A. Fire Prevention Organizations
 - 1. Public
 - 2. Federal
 - 3. State
 - 4. Private
 - II. Organization of a Fire Prevention Bureau
 - A. Functions
 - B. Fire Prevention Duties and Responsibilities
 - C. Fire Prevention Tools of the Trade
- III. Building Codes and Fire Prevention
 - A. Model Building Codes
 - B. Other Codes
- IV. Fire Codes and Fire Prevention
 - V. Structural Elements
 - VI. Inspection Procedures
 - VII. Identification of Hazards
 - A. Common vs. Special Hazards
 - B. Hazard Types
 - C. Non-structural Hazards
 - D. Deficiencies in Fire Protection Equipment and Systems
 - VIII. Abatement and Mitigation of Hazards
 - IX. Fire Investigation
 - X. Public Fire Safety Education
 - XI. Plan Review
 - XII. Report Preparation and Record Keeping